

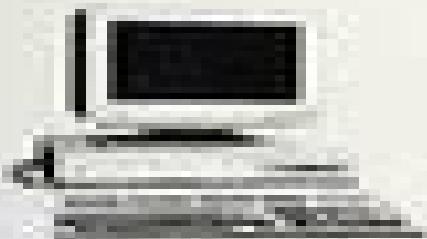
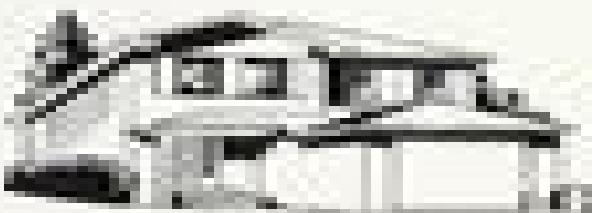


National Institute of Standards and Technology
Building and Fire Research Laboratory
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NIST BUILDING AND FIRE RESEARCH REPORT 5050

Heat and Moisture Transfer in Wood-Based Wall Construction: Measured Versus Predicted

M. M. Faro, S. H. Bell, J. R. Smith and A. H. Werner



Wood Board Illustration

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RS Peters

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Heat and Moisture Transfer in Wood-based Wall Construction R. R. Zarr,1995 *Building and Fire Research Laboratory Publications* Building and Fire Research Laboratory (U.S.),1995 **NIST Building & Fire Research Laboratory**

Publications ,1995 Heat and Moisture Transfer in Wood-Based Wall Construction R. R. Zarr,D. M. Burch,A. H.

Fanney,1995-10 Describes a comprehensive laboratory study to verify the accuracy of MOIST a personal computer program that predicts the transient one dimensional heat and moisture transfer in building envelopes The program allows the user to vary building materials their relative placement within the building envelope and the geographic location of the building Describes the results of the comparison between MOIST and experimental measurements Charts and tables

Performance Based Building Design 2 Hugo S. L. Hens,2012-10-11 Just like building physics performance based building design was hardly an issue before the energy crises of the 1970ies With the need to upgrade energy efficiency the interest in overall building performance grew The term performance encompasses all building related physical properties and qualities that are predictable during the design stage and controllable during and after construction The term predictable demands calculation tools and physical models that allow evaluating a design whereas controllable presumes the existence of measuring methods available on site The basis for a system of performance arrays are the functional demands the needs for accessibility safety well being durability energy efficiency and sustainability and the requirements imposed by the usage of a building In continuation of Vol 1 this second volume discusses light weight construction with wooden and metal elements roofing systems facades and ends with finishes and the overall risk analysis Most chapters build on a same scheme overview overall performance evaluation design and construction The work is absolutely recommended to undergraduates and graduates in architectural and building engineering though also building engineers who want to refresh their knowledge may benefit The level of discussion assumes the reader has a sound knowledge of building physics along with a background in structural engineering building materials and building construction Where and when needed input and literature from over the world was used reason why each chapter ends listing references and literature

Performance-Based Building Design Hugo S. L. Hens,2024-02-15 Dieses dritte Buch einer dreiteiligen Reihe ber Bauphysik und ihre Anwendung befasst sich mit dem Einfluss der Anforderungen nach dem Performance Konzept auf die Planung und den Bau von Geb uden Am Anfang steht die Darstellung der funktionalen Anforderungen an Geb ude gefolgt von der Er rterung der Materialien die erforderlich sind um ein funktionales W rme und Feuchteverhalten zu gew hrleisten Anschlie end werden die Vorbereitung der Baustelle der Aushub die Fundamente die unterirdischen Geb udetiale bliche Tragstrukturen Fu bodenaufbauten Au enwandtypen verschiedene Dachsysteme Innenw nde Fenster Au ent ren Glasfassaden Balkone Sch chte Schornsteine Treppen Holzrahmenbau Wand Boden und Deckenabschl sse erl utert Dabei werden nicht nur die auf W rme Luft und Feuchte bezogenen Messgr en betrachtet sondern auch das Tragverhalten die Dauerhaftigkeit der

Brandschutz die Akustik die Instandhaltung die Nachhaltigkeit und die Baubarkeit diskutiert Abschlie end werden Risiken in den Blick genommen die durch typische M ngel verursacht werden k nnen Das Werk gr ndet neben der jahrelangen Lehr und Forschungst igkeit sowie Gutachter und Instandsetzungspraxis des Autors auf einer Reihe nationaler und internationaler Literatur weshalb jedes Kapitel mit einer ausf hrlichen Liste der ber cksichtigten Ver ffentlichungen endet Gegen ber der 1 Auflage in zwei B nden wurde der Stoff f r mehr bersichtlichkeit in einem Buch zusammengefasst Wo sinnvoll und notwendig wurden Kapitel umgeschichtet erweitert und umformuliert so dass ihre Anzahl von 28 auf 20 reduziert werden konnte Baugruben und Fundamente bilden jetzt ein gemeinsames Kapitel w hrend die Anforderungen an Au enw nde und D cher einheitlich betrachtet werden und in acht Kapiteln ber die Geb udeh lle davon f nf ber Au enw nde und drei ber Dachkonstruktionen zur Auswahl stehen Es schlie en sich die Innenausbau und andere spezifische Geb udetiale an gefolgt von einem Kapitel ber Fenster Au ent ren und Glasfassaden Die letzten drei Kapitel befassen sich mit dem Holzrahmenbau dem Innenausbau und der Risikobetrachtung Alle Kapitel wurden kritisch durchgesehen aktualisiert und wo n tig mit zus tzlichen Abbildungen versehen so dass die Erfahrungen aus 38 Jahren Lehrt igkeit f r Architektur und Bauingenieurstudenten 36 Jahren Forschung und 53 Jahren Beratungst igkeit eingeflossen sind [Publications of the National Institute of Standards and Technology ... Catalog](#) National Institute of Standards and Technology (U.S.),National Institute of Standards and Technology (U.S.). Information Resources and Services Division,1994 [NIST Building Science Series](#),1989 [Journal of Research of the National Institute of Standards and Technology](#),1995 [Monthly Catalogue, United States Public Documents](#),1995 **[Monthly Catalog of United States Government Publications](#)** United States. Superintendent of Documents,1995 [Monthly Catalog of United States Government Publications](#) ,1995 [Water Problems in Building Exterior Walls](#) Jon M. Boyd,Michael J. Scheffler,1999 [Research in Building Physics and Building Engineering](#) Paul Fazio,Hua Ge,Jiwu Rao,Guylaine Desmarais,2020-11-26 Buildings influence people They account for one third of energy consumption across the globe and represent an annual capital expenditure of 7% 10% of GNP in industrialized countries Their lifetime operation costs can exceed capital investment Building Engineering aims to make buildings more efficient safe and economical One branch of this discipline Building Physics Science has gained prominence with a heightened awareness of such phenomena as sick buildings the energy crisis and sustainability and considering the performance of buildings in terms of climatic loads and indoor conditions The book reflects the advanced level and high quality of research which Building Engineering and Building Physics Science in particular have reached at the beginning of the twenty first century It will be a valuable resource to engineers architects building scientists consultants on the building envelope researchers and graduate students [Bulletin de l'Institut international du froid](#) ,2001 [NIST Special Publication](#) ,1994 [Springer Handbook of Wood Science and Technology](#) Peter Niemz,Alfred Teischinger,Dick Sandberg,2023-04-01 This handbook provides an overview on wood science and technology of unparalleled comprehensiveness and international validity It

describes the fundamental wood biology chemistry and physics as well as structure property relations of wood and wood based materials The different aspects and steps of wood processing are presented in detail from both a fundamental technological perspective and their realisation in industrial contexts The discussed industrial processes extend beyond sawmilling and the manufacturing of adhesively bonded wood products to the processing of the various wood based materials including pulp and paper natural fibre materials and aspects of bio refinery Core concepts of wood applications quality and life cycle assessment of this important natural resource are presented The book concludes with a useful compilation of fundamental material parameters and data as well as a glossary of terms in accordance with the most important industry standards Written and edited by a truly international team of experts from academia research institutes and industry thoroughly reviewed by external colleagues this handbook is well attuned to educational demands as well as providing a summary of state of the art research trends and industrial requirements It is an invaluable resource for all professionals in research and development and engineers in practise in the field of wood science and technology Radiant Cooling in US Office Buildings Corina Stetiu,1997 *Applied Mechanics Reviews* ,1995 **Government Reports Announcements & Index** ,1995

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